

E.6
9-7-90

US EPA RECORDS CENTER REGION 5



530267

ENVIRONMENTAL HEALTH DIVISION
WAYNE COUNTY HEALTH DEPARTMENT
5454 S. Venoy
Wayne, Michigan 48184
Fax # (313) 326-7221

TELECOMMUNICATIONS MEMORANDUM

Date: 9-7-90 Time: _____
To: Ralph Dollhopf
At: (313) 692-7677
No. of Pages: 2 (including this cover sheet)
From: Mark Manor

If any difficulty in receiving this transmission, please contact:

Linda Benz
at (313) 326-4909

Message:

9-7-90
E-6

ENVIRONMENTAL HEALTH DIVISION

5454 S. Venoy Road
Wayne, Michigan 48184
Telephone: (313) 326-4900

GLENN BROWN, P.E., MPH
Director

September 7, 1990



Edward H. McNamara
County Executive

CYNTHIA TAUEG, MPH
Director-Health Officer

DONALD LAWRENCHUK, M.D., MPH
Medical Director

Mr. Ralph Dollhopf
U.S. EPA
Eastern Response Unit
9311 Groh Road
Grosse Ile, Michigan 48138

Dear Mr. Dollhopf:

Pursuant to our conversation yesterday, Wayne County will take the following steps to remediate and prevent chemical releases at the maintenance building and grain elevator:

1. John Kamphuis and myself will be collecting chemicals which, for the most part, consist of paints, solvents, adhesives, cements, roofing materials and pesticides.
2. Those materials which are useable will be transported off-site to secure storage facilities subsequent to your approval.
3. Waste materials will be placed in fifty-five gallon drums and stored within the powerhouse which has been secured and has security guards present.
4. You will be appraised of the nature, volume and disposal plans of waste prior to removal off-site.

Analysis of mudded joints in the maintenance building suspected of being asbestos containing material (ACM) revealed no asbestos to be present. When a written lab report is obtained, you will be sent a copy.

Please be advised that almost all of these chemicals are in the original labeled container, many of which have not been opened. There are very few containers without labels or that are in other than an original container.

If I can be of further assistance or provide additional information, please feel free to contact me at your convenience.

Sincerely,

Mark L. Manor, CHMM
Hazardous Materials Manager

MLM:lr

FAX • TXI
415 CUFFORD
DETROIT, MI 48226-1518
(313) 224-7600
FAX: (313) 224-2609

MESSAGE/INSTRUCTIONS:

NAME: MARK MANOR TELEPHONE NO.: (313) 224-7768
IF THIS TRANSMISSION IS UNCLEAR OR INCOMPLETE, PLEASE CALL:

TOTAL NUMBER OF PAGES (INCLUDING COVER SHEET)

19

LOCATION: 415 Clifford, Detroit, MI
DEPT./DIVISION: Wayne County Dept of Public Services

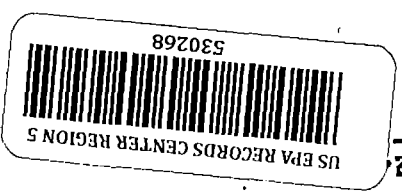
NAME: Mark Manor
FROM:

LOCATION: Grosse Ile, MI
DEPT./DIVISION/COMPANY: EPA Eastern Response Unit

NAME: Ralph Dollhoff

PLEASE DELIVER THE ATTACHED PAGES TO:

DATE: Oct 1, 1990
TO:



ADMINISTRATION DIVISION FAX NO. 22

FAX COVER SHEET



WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES
EDWARD H. McNAMARA
COUNTY EXECUTIVE
RUSSELL A. GRONEVELT, P.E.
ASSISTANT COUNTY EXECUTIVE AND
DIRECTOR, DEPARTMENT OF PUBLIC SERVICES
(313) 224-7702
EJ
10-1-90

WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES
ENGINEERING DIVISIONEDWARD H. McNAMARA
COUNTY EXECUTIVEG.E. SIEMERT, P.E.
DIRECTOR AND COUNTY HIGHWAY ENGINEER
(313) 224-7758

October 1, 1990

Ms. Carol A. Graszer
U.S. EPA - Region V
Emergency Support Section 5HS-12
230 South Dearborn Street
Chicago, IL 60604CERTIFIED MAIL-
RETURN RECEIPT REQUESTED

Dear Ms. Graszer:

Re: Plymouth Center Facility, Northville Township, Michigan

This letter is to update you on the current status stemming from your Agency's PRP letter of September 13, 1990 from Mr. Robert J. Bowden, and to provide clarification of what constitutes the site.

The site is the County property on the west side of Sheldon Road which consists of fallow agricultural and wooded land with numerous abandoned buildings which comprised the Plymouth State Home and Training School. The County also owns property on the east side of Sheldon Road which was the Wayne County Child Development Center, an orphanage for retarded children, was acquired at another time and is a completely distinct and separate site and facility.

The current status of the Northville site is as follows:

1. All buildings have been surveyed. All hazardous chemicals were transported to maintenance building for commingling. As is evident from the attached list, chemicals encountered were almost all paints, sealers, etc. They were subsequently secured in the switching building.
2. Hank Maciejewski, an EPA Region V, Certified RCRA inspector, personally inspected our commingling operation, and determination of

- 2 -

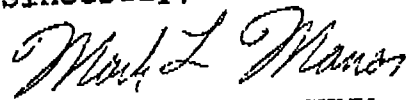
disposal options, and also inspected containers to certify them as empty.

3. All waste has been stored in the switching building, a secured building located approximately 65 feet southeast of the fire station and approximately 50 feet from Sheldon Road. This building is a brick structure with steel double doors, and no windows.
4. Samples of unknown boiler components have been sent to Air Pollution Division for analysis; we are awaiting results.
5. The oil spilled on the floor of the maintenance building has been absorbed and placed into drums. Waste motor oil drums will be sampled this week for PCB's, and if found to be negative, will be recycled.
6. The property was surveyed for PCB transformers. Three were discovered on the west end of the property. However, they are on Detroit Edison poles, and are believed to be their property. Detroit Edison will be notified this week and you will be furnished with a copy of that notification.
7. Soda ash has been removed from the basement of the powerhouse, and is part of waste being stored at the switching building.
8. Air Pollution Division will sample the air in the Powerhouse for acids and dust this week, and will furnish sample results within 10 days of the sampling.
9. Pursuant to Mr. Dollhopf's approval, having moved all suspected hazardous chemicals to a secure building; i.e., switching building, the 24-hour guard service was discontinued Friday evening, September 28, 1990.

- 3 -

Please contact me at 313/224-7652 if I can be of further assistance.

Sincerely,



Mark L. Manor, CHMM
Hazardous Materials Manager

cc: Robert Biga
Vernice Davis-Anthony
Ralph Dollhopf
Russell Gronevelt
Dewey Henry
John Kamphius
Henry Maciejewski
Lester Robinson
Andrea Thompson
Dr. Peter Warner
Thomas Wikle
Stanley Wyre

Attachments:
Chemical Inventory
K & D Response Letter
MSDS Soda Ash
Asbestos Analysis Report

MLM/jmk
0064MM

*Chemical Inventory***SPRAY CANS**

13 oz	Ford Spray Lacquer	12
5 oz	Ford Spray Enamel	52
14 oz	Tur gas ept Deodorant Ayerst Labs Inc. N.Y., N.Y.	
12 1/2 oz	PPG Spray Enamel	9
13 oz	Krylon Spray Coating #1302 Crystal Clear	
	Abbott Disinfectant de-aer #525	
13 oz	Krylon interior/exterior Enamel	
5 oz	Dupli-Color Auto Spray Primer	
16.6 oz	Mellocraft X-12 Disinfectant Deodorant	
8 oz	Frazer Tinting Color	
20 oz	State Pen Penetrating Oil	
13 oz	Glass Frosting Illinois Bronze Powder & Paint Co.	
12.6 oz	Rustoleum	
14 oz	K-Mart Instant Furniture Spray Polish	

Non-aerosol cans

1 qt	Rez PPG Interior Oil Stain	7
1 qt	Customatic colorant Brown iron oxide 1987	3
1 qt	Graham's Elite Tinting Base 162-50 (19-190)	
1 qt	Dramatone Colorant	2
8 oz	Rustoleum	
8 oz	Minwax Stain "fruitwood"	
1 pt	Sapolin Rite On Green Chalkboard Paint	
1 gal	Glidden Alkyd Enamel	2
1 gal	Glidden Latex Beaver Brown	6

- 2 -

1 gal	Presto Adhesive All Purpose Asphalt Tile Adhesive	
1 gal	Glidden Industrial Lacquer Wood Sealer	
1 gal	Tar	
1 gal	Glidden Latex Enamel	
1 gal	Gleem Highway Marking Paint Yellow	
1 gal	Marsh R-1 Black Stencil Ink	
1 qt	Valspar Polyurethane	
1 gal	PPH Surface Conditioner 7-16	
	PPG Latex Paint	36
	Glidden Spread Satin Latex	4
	Henry Cove Base Adhesive Latex	
	Wards Great Coat Latex	
	Glidden Spread Satin Beaver Brown Latex	4
	Glidden Sanding Sealer	1
	Durako Sanding Sealer	3
	Durako Vinyl Wall Finish	6
	Durako Latex Housepaint	1
	Durako Enamel Undercoat	7
	Durako Exterior Primer	4
	Durako Wall Finish	1
	Glidden Wood Filler	6
	PPG Speedhide Metal Primer	1
	PPG Speedhide Wood Primer	2
	PPG Alkyd Gloss Enamel	17
	Glidden Glide Guard Enamel	8

- 3 -

	Glidden Alkyld Enamel	35
	Kill Rust Hardener	2
	Kill Rust Resin	1
	Dry Glow Coating Floss Paint	2
	Glidden Rust Master Enamel	1
	Unlabeled	1
	Bullseye Shellac	1
	Bullseye Rustoleum	1
	Glidden Erporde Enamel	4
	Glidden Primer	3
	PPG Latex Enamel	3
8 oz	Glidden Speed Enamel	2
	PPG Latex	1
8 oz	Gleem Highway Marking Paint	4
8 oz	Ford Acrylic Enamel	24
8 oz	Acrylic Enamel	1
	Jaegle Traffic Marking Paint	2
	PPG Sealer Primer	2
8 oz	Jewel Blackboard Paint	1
	Glidden Primer	1
	Colarant (Gustomatic)	6
	Glidden Coloranent	6
	PPG Colorant	4
	Martin Senior Paint Enamel	
	PPG Alkyld Oil Stain	1
	Glidden Enamel	9

- 4 -

Sapolin Chalk Board Coating

1

Glidden Enamel QT

1

PPG Polyurathane

1

September 14, 1990

I document that all containers listed on the attached pages (No. 1 through 4) were empty at the time of disposal.

Henry R. Maciejewski
HENRY R. MACIEJEWSKI

K & D INDUSTRIAL SERVICES, INC.

6470 BEVERLY PLAZA
ROMULUS, MICHIGAN 48174
(313) 729-3350

**ARCHITECTURAL/FACILITIES
ENGINEERING DIVISION**

RECEIVED

AT SEP 21 1990 AD

September 19, 1990

Mr. Mark L. Manor
Wayne County Department
of Public Services
Hazardous Materials Division
415 Clifford Street
Detroit, Michigan 48226

Dear Sir,

In response to your letter dated September 13, 1990, I am pleased to address the following questions.

1. Why was potash used to neutralize the sulfuric acid?

As I stated to you in a previous telephone conversation, K & D did not use potash to neutralize the sulfuric acid. We did in fact use soda ash. The reason soda ash was used is that we were originally called for emergency response service and since we keep a supply of soda ash in our inventory, and at the time we were not exactly sure of the amounts or types of caustics and acids involved, we chose to utilize soda ash for our initial response, as soda ash is an accepted method for acid neutralization.

2. What method or calculation did you utilize to determine the amount of potash used?

The amount of soda ash used was determined by the amount of reactivity when it was applied. When soda ash is applied to acid there is an immediate bubbling reaction. We continue to mix in soda ash until the acid stops reacting and the material can safely be handled.

3. Do you consider the clean up of the potash/acid materials to be complete? If not, what is the status of the clean up?

I consider the initial response to be completed. However, I do not consider the total clean up to be completed as you instructed me in a recent telephone conversation not to do anything further unless instructed by you.

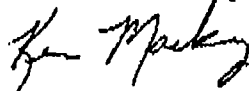
What we had started doing was drumming up and grouping all like materials. We then obtained samples of the materials for analysis. At this stage some Wayne County workers arrived on site and removed some drums and samples, which we had gathered, and transported them off site. It was after this incident that we talked and you stated that you were having the analysis performed and that we should not do any further activity until you directed us to do so.

I still have several samples in my possession, which I will be returning to the site by 9/28/90, unless you direct us otherwise.

We will be happy to continue our services at your request.

If you have any questions or require additional information, please do not hesitate to call.

Respectfully,



Ken Markey

KM/hrw

FMC

MATERIAL SAFETY DATA

497

19 8

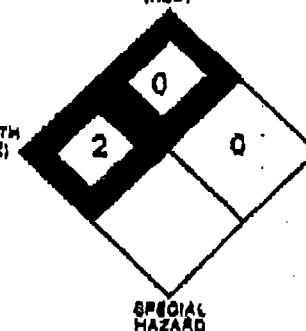
NFPA Designation 704

SODIUM CARBONATE

EMERGENCY TELEPHONE NOS:
CHEMTREC (800) 424-9300
MEDICAL (303) 595-9048
OTHER (307) 875-2580

DEGREE OF HAZARD

4 = EXTREME
3 = HIGH
2 = MODERATE
1 = SLIGHT
0 = INSIGNIFICANT

HEALTH
(BLUE)FLAMMABILITY
(RED)REACTIVITY
(YELLOW)SPECIAL
HAZARD

REVISION: 3

EFFECTIVE: 10/10/88

PRINTED: 09/12/90

PREPARED FOR USE BY..... FOR CUSTOMER USE

IDENTIFICATION

INFORMATION PROVIDED BY... FMC WYOMING CORPORATION
2000 MARKET ST.
PHILADELPHIA, PA 19103
(215) 299-6000

CONTENTS

LATEST REVISIONS NOTED BY BOLD PRINT FOR THIRTY
DAYS FROM DATE OF REVISION.

PRODUCT INFORMATION

SYNONYMS..... SODA ASH, SODIUM CARBONATE ANHYDROUS
SHIPPING NAME - DOT..... NOT APPLICABLE
IATA..... NOT APPLICABLE
IMCO..... NOT APPLICABLE
FORMULA..... Na_2CO_3
CHEMICAL FAMILY..... ALKALI
PRODUCT USES..... GLASS MANUFACTURE, DETERGENT MANUFACTURE, SODIUM
CHEMICALS AND CARBONATE CHEMICALS MANUFACTURE,
PULP AND PAPER, BRINE TREATMENT, WATER HARDNESS
REMOVAL, PH ADJUSTMENT IN WATER OR WASTE WATER,
FLUE GAS DESULFURIZATION, COAL TREATMENT, ION
EXCHANGE RESIN REGENERATION.

PRECAUTIONARY INFORMATION

PRECAUTIONARY STATEMENT... DUSTS MAY CAUSE SEVERE IRRITATION OF EYES AND
PLEASE USE THIS STATEMENT SLIGHT IRRITATION OF NOSE AND THROAT.
TO SATISFY THE IN-PLANT
LABELING REQUIREMENTS
OF THE OSHA HAZARD
COMMUNICATIONS STANDARD
29CFR 1910.1200)
REPEATED CONTACT MAY CAUSE REDNESS AND DRY
CRACKED SKIN.

INGREDIENTS

CAS# AND COMPONENT..... 497-19-8 SODIUM CARBONATE 99.8%

ACD

PAGE 01

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MATERIAL SAFETY DATA

497

19 8

NFPA Designation 704

SODIUM CARBONATE

EMERGENCY TELEPHONE NOS:

CHEMTREC (800) 424-9300

MEDICAL (303) 595-7048

OTHER (307) 875-2580

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***** INGREDIENTS *****

CANADIAN PRODUCT

IDENTIFICATION NUMBER..... 2811

***** PHYSICAL DATA *****

MELTING/FREEZING POINT..... 851 DEGREES C (1564 DEGREES F)

BOILING POINT..... DECOMPOSES

VAPOR PRESSURE..... NIL

VAPOR DENSITY (AIR = 1)..... NOT APPLICABLE

ROOM TEMPERATURE

APPEARANCE AND STATE: WHITE GRANULAR SOLID

ODOR..... ODORLESS

SPECIFIC GRAVITY (H2O = 1) 2.509

SOLUBILITY IN H2O % BY WT 33.2 MAX.

% VOLATILES BY VOLUME..... NIL

EVAPORATION RATE

(BUTYL ACETATE = 1)..... NOT APPLICABLE

1 (AS IS)..... NOT APPLICABLE

pH (1% SOLUTION)..... 11.4

ODOR THRESHOLD..... NOT APPLICABLE

DENSITY (GMS/ML)..... DENSE GRADES, 0.86-1.12; LIGHT GRADES, 0.70-0.90

COEFF. WATER/OIL DIST..... NOT AVAILABLE

***** FIRE, EXPLOSION AND REACTIVITY DATA *****

FLASH POINT..... NONCOMBUSTABLE

AUTOIGNITION TEMPERATURE..... NOT APPLICABLE

FLAMMABLE LIMITS UPPER..... NOT APPLICABLE

(AIR) LOWER..... NOT APPLICABLE

EXTINGUISHING MEDIA..... ALL

SPECIAL FIREFIGHTING..... NONE

PROCEDURES

FMC

MATERIAL SAFETY DATA

497

19 8

NFPA Designation 704

SODIUM CARBONATE

EMERGENCY TELEPHONE NOS:

CHEMTREC (800) 424-9300

MEDICAL (303) 595-9048

OTHER (307) 875-2580

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***** FIRE, EXPLOSION AND REACTIVITY DATA *****

FREE OF FIRE AND NONE
EXPLOSION HAZARD

STABILITY STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: CONTACT WITH ACIDS EXCEPT UNDER CONTROLLED
CONDITIONS.
POTENTIALLY DEADLY CARBON MONOXIDE GAS CAN FORM
IN ENCLOSED AREAS OR TANKS WHEN ALKALINE
PRODUCTS CONTACT FOOD AND BEVERAGE PRODUCTS
THAT CONTAIN SUGARS.

MAJOR CONTAMINANTS THAT... NONE
CONTRIBUTE TO INSTABILITY

INCOMPATIBILITY REACTS WITH ACIDS WITH RELEASE OF LARGE VOLUMES
OF CARBON DIOXIDE GAS AND HEAT.

HAZARDOUS DECOMPOSITION... NONE
PRODUCTS

SENSITIVITY TO MECH. NONE
IMPACT

SENSITIVITY TO STATIC, ... NONE
DISCHARGE

***** ROUTES OF EXPOSURE *****

EYE CONTACT CORNEAL OPACITIES AND IRRITATION OCCURRED IN
RABBIT EYE TESTS. TOXICOLOGY 23:281-291 1982

SKIN CONTACT NON-IRRITATING TO INTACT SKIN. MINOR IRRITATION
MAY OCCUR ON ABRADED SKIN.
TOXICOL. APPL. PHARMACOL. 31:481-490 (1975)

SKIN ABSORPTION NO SIGNIFICANT HAZARD. NO EFFECT FROM 30%
AQUEOUS SLURRY IN HUMANS, RABBITS, OR GUINEA
PIGS. TOXICOL. APPL. PHARMACOL. 31:481-490
(1975).

INHALATION NO DATA AVAILABLE TO INDICATE THAT
AIRBORNE DUST IS A HEALTH HAZARD.

INGESTION NO SIGNIFICANT HAZARD. LD50 = 3.6G/KG (RATS)
GIG. TR. PROF. ZABOL. 11:53-57 (1976)

FMC

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MEDICAL (307) 595-9048

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EXPOSURE LIMITS

OSHA: NOT ESTABLISHED

ACGIH: NOT ESTABLISHED

OTHER: ACGIH - TLV-TWA FOR NUISANCE DUST IS
10 MG/CU M TOTAL DUST OR
5 MG/CU M RESPIRABLE DUST

EFFECTS OF OVEREXPOSURE

ACUTE EXPOSURE.....

MAY CAUSE SEVERE IRRITATION OF THE EYES,
INCLUDING CORNEAL OPACITIES. DUSTS AND MISTS
ARE IRRITATING TO THE SKIN, MUCCOUS MEMBRANES
AND UPPER RESPIRATORY TRACT.

CHRONIC EXPOSURE.....

MAY CAUSE INFLAMMATION OF THE MUCCOUS MEMBRANES
IN THE RESPIRATORY TRACT AND OF THE SKIN.

EFFECTS CONSIDERED

INCLUDE: SENSITIVITIES,
CARCINOGENICITY,
TERATOGENICITY,
MUTAGENICITY,
SYNERGISTIC
PRODUCTS, ANDANY MEDICAL CONDITIONS
GENERALLY RECOGNIZED AS
BEING AGGRAVATED BY
EXPOSURE.)

EMERGENCY AND FIRST AID PROCEDURES

EYES.....

FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST
15 MINUTES, LIFTING THE UPPER AND LOWER LIDS
OCCASIONALLY. SEE AN OPHTHALMOLOGIST IF
IRRITATION PERSISTS.

SKIN.....

WASH WITH PLENTY OF WATER FOR 15 MINUTES. IF
IRRITATION OCCURS AND PERSISTS, OBTAIN
MEDICAL ATTENTION.

INHALATION.....

REMOVE FROM EXPOSURE. IF DISCOMFORT OCCURS
AND PERSISTS, OBTAIN MEDICAL ATTENTION.

INGESTION.....

DRINK WATER TO DILUTE. OBTAIN MEDICAL ADVICE
VIA PHONE.

DECONTAMINATION PROCEDURE:

WASH WITH SOAP AND WATER.

ACD

PAGE 04

FMC

MATERIAL SAFETY DATA

497

19 8

NFPA Designation 704

SODIUM CARBONATE

EMERGENCY TELEPHONE NOS:

CHEMTREC (800) 424-9300

MEDICAL (303) 593-9048

OTHER (307) 875-2580

DEGREE OF HAZARD

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HEALTH
(BLUE)

FLAMMABILITY
(RED)

REACTIVITY
(YELLOW)

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EMERGENCY AND FIRST AID PROCEDURES *****

TES TO PHYSICIAN.....

WHILE INTERNAL TOXICITY IS LOW, IRRITANT EFFECTS OF HIGH CONCENTRATIONS MAY PRODUCE CORNEAL OPACITIES AND VESICULAR SKIN REACTIONS IN HUMANS WITH ABRADED SKIN ONLY. TREATMENT IS SYMPTOMATIC AND SUPPORTIVE.

SPECIAL PROTECTION *****

VENTILATION REQUIREMENTS..

USE GENERAL ROOM DILUTION OR LOCAL EXHAUST VENTILATION WHERE EXCESSIVE DUST MAY BE RELEASED INTO WORK ENVIRONMENT.

RECOMMENDED PERSONAL
PROTECTIVE EQUIPMENT

RESPIRATORY.....

NIOSH/MSHA DUST RESPIRATOR. WEAR DUST RESPIRATOR IF NUISANCE DUST TLV OF 10 MG/CUBIC METER EXCEEDED OR DISCOMFORT PRESENT

EYES.....

CHEMICAL GOGGLES

GLOVES.....

GENERAL PURPOSE

SPECIAL CLOTHING..

FULL COVER CLOTHING

AND EQUIPMENT

FOOTWEAR.....

NONE

STORAGE AND HANDLING *****

(PLEASE USE THIS STATEMENT
TO SATISFY THE IN-PLANT
LABELING REQUIREMENTS
OF THE OSHA HAZARD
COMMUNICATIONS STANDARD
29CFR 1910.1200)

DO NOT STORE CLOSE TO ACIDS.
MINIMIZE THE FREE FALL WHEN HANDLING TO MINIMIZE THE DUST GENERATED.
WEAR EYE PROTECTION AND NIOSH/MSHA APPROVED DUST RESPIRATOR TO PREVENT IRRITATION WHERE EXCESSIVE DUST IS PRESENT.
POTENTIALLY DEADLY CARBON MONOXIDE GAS CAN FORM IN ENCLOSED AREAS OR TANKS WHEN ALKALINE PRODUCTS CONTACT FOOD OR BEVERAGE PRODUCTS THAT CONTAIN SUGARS. DO NOT ENTER SUCH AREAS UNTIL THEY HAVE BEEN WELL VENTILATED AND CARBON MONOXIDE AND OXYGEN LEVELS HAVE BEEN DETERMINED SAFE. CONTINUE TO MONITOR ATMOSPHERE WHILE PERSONNEL ARE IN ENCLOSURE.

FMC

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SODIUM CARBONATE

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EMERGENCY TELEPHONE NOS:

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OTHER (307) 875-2580

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***** DISPOSAL, SPILL OR LEAK PROCEDURES *****

PROCEDURE FOR RELEASE, . . . : SWEEP UP AS MUCH AS POSSIBLE FOR SALVAGE OR
OR SPILL DISPOSAL. WASH AWAY RESIDUE WITH WATER.
WASTE DISPOSAL METHOD, . . . : IF MATERIAL CANNOT BE SALVAGED, THE PREFERRED
METHOD OF DISPOSAL IS IN A SECURE CHEMICAL
LANDFILL IN ACCORDANCE WITH ALL LOCAL, STATE
AND FEDERAL ENVIRONMENTAL REGULATIONS.
EMPTY CONTAINERS MAY BE INCINERATED OR DISCARDED
AS GENERAL TRASH.

***** TRANSPORTATION DATA *****

DOT PROPER SHIPPING NAME: : SODIUM CARBONATE
DOT CLASSIFICATION: : NON HAZARDOUS
DOT LABELS: : NOT APPLICABLE
DOT MARKING: : NOT APPLICABLE
DOT PLACARD: : NOT APPLICABLE
IN NUMBER: : NOT APPLICABLE
HAZARDOUS SUBSTANCE/RQ: : NOT APPLICABLE
49 STCC NUMBER: : NOT APPLICABLE
EMERGENCY ACCIDENT
PRECAUTIONS AND PROCEDURE: : NONE
PRECAUTIONS TO BE TAKEN: : NONE
IN TRANSPORTATION
TYPE PACKAGES: : RAILROAD HOPPER CARS, HOPPER TRUCKS, BAGS
OTHER SHIPPING IDS: : NOT APPLICABLE

***** ADDITIONAL REGULATORY INFORMATION *****

MATERIAL IS REPORTED IN
EPA TSCA INVENTORY LIST? YES
MATERIAL IS LISTED AS A
CARCINOGEN/POTENTIAL
CARCINOGEN IN FOLLOWING
NTP ANNUAL REPORT... ? NO
IARC GROUP 1 OR 11... ? NO
OSHA 29CFR PART 1910
SUBPART Z ? NO
ACGIH APPENDIX A..... ? NO

FMC

MATERIAL SAFETY DATA

497

19 8

NFPA Designation 704

SODIUM CARBONATE

FLAMMABILITY
(RED)

DEGREE OF HAZARD

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HEALTH
(BLUE)REACTIVITY
(YELLOW)SPECIAL
HAZARD

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CHEMTREC (800) 424-9300

MEDICAL (303) 595-9048

OTHER (307) 875-2580

REVISION: 3

EFFECTIVE: 10/10/88

PRINTED: 09/12/90

***** ADDITIONAL REGULATORY INFORMATION *****

CALIFORNIA "PROPOSITION 65"
NO CHEMICALS LISTED BY CALIFORNIA ARE PRESENT AT
A LEVEL THAT POSES A SIGNIFICANT RISK OF CAUSING
CANCER OR REPRODUCTIVE TOXICITY. CONCENTRATION
OF LISTED CHEMICALS ARE:

ARSENIC, PPM AS AB203 = 0.03

TOTAL CHROMIUM, PPM CR = 0.03

LEAD, PPM PB < 1

ALL OTHER LISTED CHEMICALS ARE NOT DETECTED OR
NOT SUSPECTED TO BE PRESENT.

DOES PRODUCT CONTAIN A
TOXIC CHEMICAL(S) SUBJECT
TO SARA TITLE III SECTION
313 REPORTING.....

NO

CHEMICAL(S).....
SARA TITLE III SECTION
311/312 CLASSIFICATION....

ACUTE HEALTH HAZARD (IRRITANT)

***** ADDITIONAL INFORMATION *****

AQUATIC TOXICITY:

BLUEGILL: TLM, 24 HRS. = 385MG/L (NA2CO3)

J. WATER POLLUTION CONTROL FEDERATION

37(9), 1908-16, 1968

Air Pollution Control Division
Wayne County Health Department
2211 E. Jefferson, 2nd Floor
Detroit, MI 48207

Sample # 90Date Submitted 9-7-90

REQUEST FOR SAMPLE ANALYSIS

SAMPLE INFORMATION

Sampling Location

Address W. Side Sheldon Rd City Northville Twp County WayneSampling: Date 9-6-90 Time 3 p.m.Sample Condition dry solid, friableCollection Method chunkField Inspector John Kamphius Return Results to Mark Manor ²²⁴⁻⁷⁷⁶⁸
_{415 Clifford Detroit 482}Pollution Occurrence: Date unknown vandalism TimeWeather Conditions warm sunny 88°F

Additional Information

POSSIBLE POLLUTANT SOURCES

1. Suspected Source Pipe Insulation
Source Type Mudded joint
Substances Suspected Asbestos

2. Suspected Source
Source Type
Substances Suspected

RESULTS

Date Seal Broken N.S. Resealed ByGlass fibers were present. No asbestos could be found.

ANALYTICAL METHOD

☒ Optical Microscopy☒ P. L. Microscopy☐ X-ray Diffractometry☐ Chemical Spot Tests☐ A. A. Spectroscopy☐ OtherDate Results Reported Sep. 7, 1990Date Results Issued 9-11-90

Chemist

Fred A. Muxlow

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